0.00

0.00

160

Quality Control

QC2- Inspect parts off machine FAI/FAIB

Memo

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
· <u> </u>							, roa mgr						
						ŧ.							
								ļ					
Part No	•	PAR #:	Fault Categ	jory:	_ NCR: Yes N	lo DQA:	Date: _						
Res		solution:	Disposition	ı:	_ QA: N/C Clo	sed:	Date: _						
NCR:		,	WORK ORDE	R NON-CONFORMA	NCE (NCR)	1							
DATE	OTED	Description of NC	Description of NC Corrective Action			Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					

#### Work Order ID 61370

Friday, August 20, 2010 3:45:49 PM



Page 2

Item ID:

D3691-1

Accept

Setup Start

Stop



**Revision ID:** 

**Start Date:** 

Item Name: **STUD** 

8/23/2010

**Start Oty: 16.00** 

Required Date: 8/30/2010

Req'd Oty: 16.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



Sequence ID/

Work Center ID

QC:

Date: SPC (Y/N):

> Set Up/ **Run Hours**

Tool # Plan Code

Accept Qty

Reject Reject Qty Number

Stop

Insp. Stamp

170

QC

Quality Control

Operation Description

QC8- Inspect parts - second check

Memo

0.00

0.00

Date:

171

Purchasing

Memo

0.00

0.00

Liquid Penetrant Inspection as per QSI 038 Purchasing Issue P/O: 12653

LPI as per dwg D3691

Attach copy of NDT results to work order

173

Packaging Packaging

Receive & Inspect for Damage & Mat'l Certs

0.00

Memo

0.00

CZ 10/9/28

( 000p/29 (14)

W/O:			WORK ORDER CHANGES									
DATE	STEP		PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
							i					
				_		<del> </del>						
					ļ							
				į								
Part No	):	PAF	#: Fault Category:	NCR:	Yes	No <b>DQ</b>	⊥ <b>A:</b>	Date:				
			Disposition:									

NCR:		1	WORK ORDE	ER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B	Verification	Approval	Approval	
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector
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					1			
		· · · · · · · · · · · · · · · · · · ·						

#### Work Order ID 61370

Friday, August 20, 2010 3:45:49 PM



Page 3

Item ID:

D3691-1

Accept

Setup Start

Stop

**Revision ID:** 

**Start Date:** 

Item Name: **STUD** 

Required Date: 8/30/2010

8/23/2010

QC:

**Start Qty:** 16.00

Req'd Qty: 16.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Date:

**Tooling:** 

SPC (Y/N):

Tool ID

Date:

Date:

Tool # Plan

Code

Run

Stop

Reject

Qty

Start



Sequence ID/

**Work Center ID** 

175

OC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours** 

0.00

0.00

Accept

Qty

Reject

Number

Insp.

Stamp

180

Packaging

Packaging

Identify as per dwg & Stock Location:

Memo

0.00

0.00

190

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

W/O:			WO	RK ORDER CHANGE	S				
DATE	STEP	PRO	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							!		
Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DG	A:	Date: _	,,
Resol		esolution:	ion: Disposition:					Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCF	₹)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	on B Sign & Date	k Sec	ication tion C	Approval Chief Eng	Approval QC Inspector
	ļ								

### **Picklist Print**

Friday, August 20, 2010 3:45:48 PM

Work Order ID: 61370

Parent Item: D3691-1

Parent Item Name: STUD



Start Date: 8/23/2010

Required Date: 8/30/2010

Page 1

Start Qty: 16.00

Required Qty: 16.00

Comments:

IPP Rev:A New Issue 08-01-29 JLM Veriified By:EC

IPP Rev:B Material Change 09-01-07 JLM Verified By:EC

IPP

REV:C AS PER REV D 10-03-16 JLM VERIFIED BY:EC

IPP Rev:C Added note on Step 2 09-01-26 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M174PH-H900R1.000		Purchased	No				f	26.8000	0.73	11.68584			

17-4SS H900 ROUND BAR 1.00

Location

MAT030

Loc Oty 26.8

26.8

Loc Code

10.18

W/O:		WORK ORDER CHANGES											
DATE	STEP		CEDURE CH	ANGE	Ву	Date s Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector					
					•								
		,											
Part No	:	PAR #:	Fault Cate	egory:	_ NCR: Yes 1	lo DQA: _	Date: _						
	. <b>R</b>	esolution:	Dispositi	on:	_ QA: N/C Clo	sed:	Date: _						
NCR:			WORK ORD	DER NON-CONFORMA	NCE (NCR)	) .							
DATE	STEP	Description of NC Section A	on B	VARITICATIO		Approval QC Inspector							
			Chief Eng	Chief Eng									

DART AEROSPACE LTD	Work Order:	61370
Description: Stud	Part Number:	D3691-1
Inspection Dwg: D3691 Rev: D		Page 1 of 1

### FIRST ARTICLE INSPECTION CHECKLIST

X	First Article		Prototype
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Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments		
Ø0.695	+/-0.010	1675						
45°	0.5°	450						
0.625	+0.004/-0.000	-626						
1.25	+0.000/-0.03	1,240	/					
118°	0.5°	1180						
R0.03	+/-0.030	Res						
0.11 Ref	+/-0.030	. //						
90°	0.5°	900						
Ø0.189	+0.005/-0.001	d1190						
1.31	+/-0.030	1.31						
1.65	+/-0.030	1.65	/ ,					
0.750	+0.000/-0.010	.450						
Ø0.659	+0.000/-0.015	0,651						
7.625	+/-0.015	7-635			,			
2.90	+/-0.030	2,90						
3/4-16UNF-2A	N/A	3/4-16 ONF						
0.075 x 45°	+/-0.010 x 0.5°	-075 X 75°	//			٠ هـ ٢		
0.375	+0.000/-0.010	:325						
Ø0.189	+0.005/-0.001	0,190	/					
R0.25	+/-0.030	R.25	. [					
R0.50	+/-0.030	2,50						

Measured by:	Audited by:		Prototype Approval:	N/A
Date: 10/08/	Date:	10/09/24	Date:	N/A

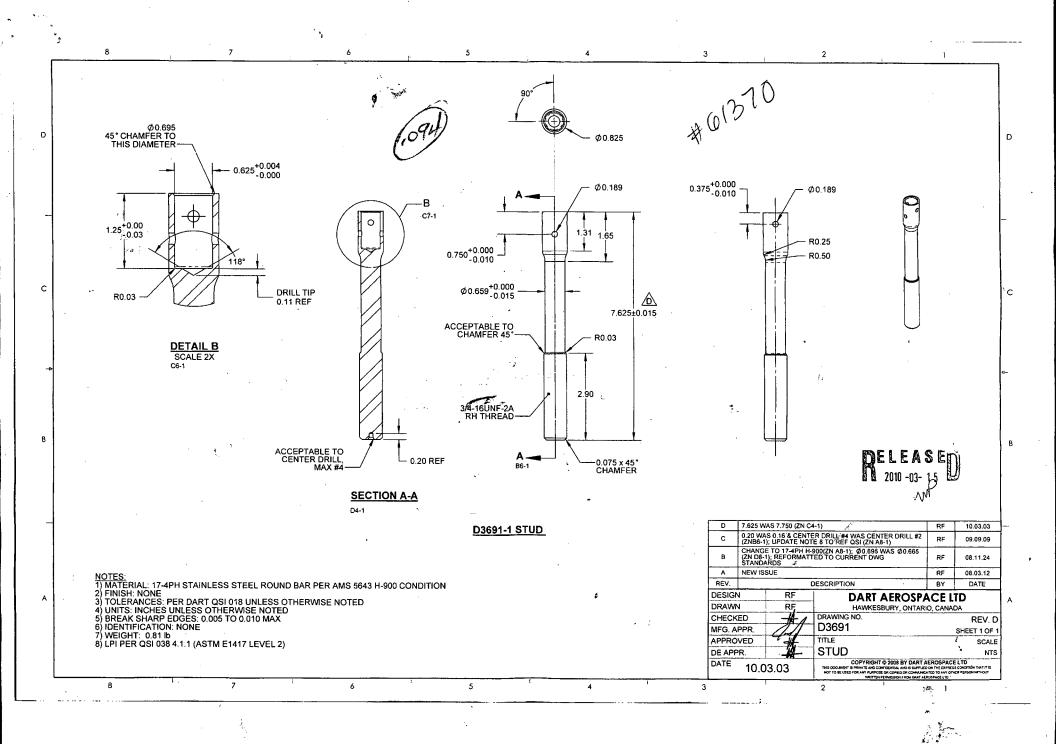
Rev	Date	Change	Revised by		Approve	d
Α	09.05.11	New Issue	KJ			
В	09.11.04	Dwg Rev updated	KJ	. ^		
С	10.03.31	Dimensions revised per Dwg Rev D	KJ	H		

11

Da	ırt	Aer	ost	oace	Ltd
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W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	В	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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			•							
The state of the s		•								
Part No:		PAR #: Fault Category:	NCR:	Yes	No DQA	۱:	Date:			

Resolution:			Disposition:		QA: N/C Clos	sed:	Date:		
NCR:			WORK OR	DER NON-CONFORMA	NCE (NCR)				
DATE	STEP	Description of NC	,	Corrective Action Section B			Approval	Approval	
		Section A .	/ Initial Chief Eng	Action Description Chief Eng	Sign & Date	- Verification Section C	Chief Eng	QC Inspector	
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W/O:			WO	<b>RK ORDER CHANG</b>	ES			
DATE	STEP	PRO	PROCEDURE CHANGE			Date Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
	}							
Part No	:	PAR #:	Fault Categ	jory:	_ NCR: Yes 1	lo DQA:	Date: _	
	R	esolution:	Disposition	);	_ QA: N/C Clo	sed:	Date:	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCR)			
DATE	CTED	Description of NC			ion B	Verification	Approval	Approval
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Section C	on C Chief Eng	QC Inspector
					ì			
		1			1	1	1	1



## LIQUID PENETRANT TEST REPORT

P- 15194

ACUKEN			, ,
	1 -0		Page
CLIENT	ATT AETO STACE	DATE \$601-38	
	LINDA/CHANTEL		8-10-0895
ADDRESS 127	O ABERDEEN	PO/WO No	
49a	KES BUY ONT.	Work Location	PANKESBURY PLANT
		ACCEPTANCE STD. ASTAL	1417 REV./DATE 2005
PROJECT	FP. I. ON	Closs Tubes	AND MEHWED PARTS.
ITEM(S) EXAMINED	closs TUBES.	(6) - STu)	<u>S</u>
JOB DESCRIPTION	PROCEDURE NO. LT-0002 RE		NO. LT-TOUT 2 REV./DATE
PART NO.		MATERIALS TAIN LESS	STEEL THOUSES ALLOSINE ALLONNIC
SCOPE WET	PLOURESCENT LI	QUID PENETRAN	ST INSECTION
CALT in	ED OUT ON 100	% EXTERNAL	SURFACE
TEST DETAILS			
	FLUORESCENT UVISIBLE	WATER WASH	□ SOLVENT REMOVABLE □ POST EMULSIFIED
FAMILY BRAND // PENETRANT Z 0	AS NA FLUX  T MINIMUM DWELL TIME 45 16	BLACK LIGHT S/N 16454 Min. LIGHTING EQUIP. □ FLASHLIG	□ OUTPUT > 1000 µ W/cm² □ AMBIENT < 2 fc  HT □ TROUBLELIGHT □ OUTPUT>100 fc @ SURFACE
PENETRANT REMOVER	20 MINIMUM DRY TIME >10	MIN. OTHER LABINO	
DEVELOPER SKD	5.2 MINIMUM DWELL TIME 10	MIN. LIGHT METER S/N 1098	
	NON AQUEOUS 🔲 AQUEOUS 🔲 🗅	PRY	Je 10
TEST SURFACE SURFACE CONDITION	As GROUND AS WELDED	MACHINED SHOT	BLASTED Z CLEAN BARE METAL
SURFACE TEMPERATURE			50°F ⊤0 52°C/125°F □ > 52°C/125°F
RESULTS- (D	METRIG IMPERIAL)		
	116 ( 556		
16-2100	5-W.O. 61370		2 7 D 7
1 - CROSS TO	BE-W.O. 62045 V	RECT I	EU1005 F.P.J.
	JBE-W.O. 61370 V	IN REGA	205 75
ŕ			-0.0.61852 -0.0.61853
<b>,</b>	SE-W.C. 61852,V		
1 - CROSS TH	BE-W.O. 61853 V		
		m/ 10	09.29
Scope of Services The agreement of Acuren Group Inc. to p	erform services extends only to those services provided for in	writing. Under no circumstances shall such services exten	d beyond the performance of the requested services. It is expressly understood
that all descriptions, comments and expre	exsions of opinion reflect the opinions or observations of Acure from the ix not assuming any responsibilities of the owner/op	en Group Inc. based on information and assumptions supple erator and the owner/operator retains complete responsible	hed by the ownertoperator and are not intended nor can mey be construct as lity for the engineering, manufacture, repair and use decisions as a result of the
data or other information provided by Ac	uren Group Inc. In no event shall Acuren Group Inc.'s liabilit	y in respect of the services referred to herem exceed the an	wan pata jor such services.
In performing the services provided, Acui implied, is made or intended by Acuren C		ised under similar circumstances by others performing suc-	h services in the same or similar locality. No other warranty, expressed or
SIGNATURES			
CLIENT REPRESENTATIVE	MAHHEW MURDICH	Mathe Musch	DTR# E-63393
TECHNICIAN (SIGNATURE):	PRINT	SIGNATURF	REPORT
` '	Alle Theory		REVIEWED BY:
NAME (PRINT):	1st TECHNICIAN	2" TECHNICIAN	NAME INITIALS
	CGSB LEVEL SNT LEVEL CGSB REG. NO COO	CGSB LEVEL SNT LEVEL	